Subject Index Volume 274

Acanthosis 250 Acne vulgaris 267, 269 Acetylsalicylic acid (Aspirin) 359, 360 Addison's disease 1 Adenosine triphosphatase 79 Adenosinetriphosphatase Staining 340 Alkaline phosphatase 221, 226 Allergic contact dermatitis 159, 387 -, -, - (ACD), stereospecificity 277-281 -, -, -, to frullanolide 277-281 -, respiratory symptoms 283-288 Alopecia areata 1 Alpha-1-globulin 259 Alpha-L-fucose 155 Alternative complement pathway 267, 268, 271, 273 Androstenediol 292 Androstanedione 289-293 Annular gap junctions 95 Anthralin 207, 210, 211 Antiandrogen 369, 371 Antibiotic susceptibility testing 321, 322 Anti-HLA-Dr Staining 342 Anti-T6 Staining 340 Apocrine sweat gland 289-293 Arbovirus 126 Aromatic retinoids 377 Arthus reaction 69, 327 Aspirin 125 Atopic dermatitis 387, 388 -, - (AD) 283-288 Atopy 283-288 Autoimmune disorders 123 -, hemolytic anemia 1

Bacterial index 185
Basal cell epithelioma 85
BBL-Gaspak-System 382
Benzopyrene 303, 304, 307, 309, 310, 311
3,4-benzopyrene 303, 305, 307, 308
Blastogenesis 159
Bowen's disease 98
Boyden chamber 269
Bromocriptin 249, 250, 251, 255

Autoimmunity 1

Cancer development time 308, 309
Captopril 123
Carcinogens 304
Carcinoma 128
Cefotaxime 321
Cefuroxime 322

Cell line K-562 284-288 Cell mediated immunity 313, 319 Cell proliferation 313 Cellular immune reactions 311 Chemical carcinogenesis 303 Chemotactic factor 267, 268, 271, 272, 273, 274 Chemotactism 313, 319 Chemotaxis 267, 269-273 Chlormandinone acetate 369, 370 Chromium release microcytotoxicity assay 283, Chronic leukemias 310 Circulating immune complex 185 Co-carcinogenic 303, 304 Colchicine 327 Collagenase 259 Complementation groups 229, 232 Concanavalin-A 85, 250, 255 Contact allergy 155 -, dermatitis 388 Coxsackieviruses 127 Creatinine 335 Cyanoacrylate method 381 – 385 Cytodestruction 9 Cytomegalovirus 127 Cytoplasmic antigens 113 Cytosis 94 Cytotoxicity 327

Dehydroepiandrosterone (DHA) 289-293 Delayed hypersensitivity 313 Dendritic cells 339 Dermatosis 39 Dermis 292 Desmosomes 93, 254 Detergent scrub method 381-384 Diabetes mellitus 1 4,4' Diaminodiphenylsulphone 69 Diet factors 128 Dihydrotestosterone (DHT) 293 2,4-dinitrochlorobenzene (DNCB) 313, 327 Dinitrofluorobenzene 155 -, (DNFB) 303, 311 DNA 207, 210, 211 DNA repair 229, 230, 234, 235, 241, 244, 245 DNA-synthesis 9 DNA synthesis, unscheduled 239 Domain turnover 93 Down's syndrome 1 Drymis winteri 278

Eczema 389 Electromagnetic radiation 303, 304 Eluted ANA 259 Endocytosis 94 B-endorphin 30 Epidermal cell membrane 85 -, Hyperproliferation 85 Epidermis 21, 93, 292 Epidermodysplasia verruciformis 213 Epidermoid 128 Epithelial cells 113 E-rosette-forming T cells 250, 255 Erythema anulare centrifugum 388 Erythroderma 327 Erythrodermia 250, 251 Erythrokeratodermia variabilis 339 Estrogens 179 Etretinate 339, 377, 378 Evaporimeter 57 Exocytosis 94, 250, 254 Exudative discoid lichenoid dermatitis 387

Fibroblasts 259, 262, 264
Fluorometry 222, 223
Food additives 359
Frullania 277
Frullanilide 277, 278, 281
Fungi 128
Furoxone-Tween 80-oil-red O-containing-agar 382

Gap junctions 93 Giant follicular lymphoma 128 Glycoaminoglycans 259 Gonorrhoea 321 Granuloma annulare 76

Half-cystines 169 Hashimoto's thyroiditis 1 Herpes simplex 127 -, zoster 127 Hexachlorobenzene 349, 354 n-Hexadecane 57 High pressure liquid chromatography 377, 335 Histamine 29 Holidays 47 Horny cell membrane 169 HPV-4 102 HPV type 1 101 HPV type 2 101 ³H-thymidine 159 Human Papilloma virus 213, 215, 217 Hydrogen peroxide 65

Hydroxyl radical 65 17β -hydroxysteroid dehydrogenase 293 3- β -hydroxysteroid dehydrogenase Δ^{4-5} isomerase (3 β -HSD) 289 – 294 Hyperkeratosis 250, 254 Hypertrophic scars 259, 260, 264, 265

IgA, salivary 300
Infective dermatitis 387
Immune complexes 65
Immunoblastic lymphoma 141
Immunofluorescence 85
Indomethacin 32
Induced pemphigus 123
Intercellular Antibodies 130
Interferon (IFN-alpha) 283 – 288
Intolerance reaction 359, 362
Iron absorption 349, 355
Irritant dermatitis 387

Keloids 259, 260, 262–265 Keratin filament 169 Keratins 113 Keratoacanthoma 93 Keratoconjunctivitis 296, 300

Labial salivary glands 295, 296, 298 – 300 Lactoferrin 69 Langerhans cell 339 Langerhans' cells 79, 250, 254, 255 Leprosy 185 Leukocytociastic vasculitis 65, 251 Lignans 9 Lipid droplet 373, 374 Lymphocytes 159

Macrophage migration inhibitory activity 73 Macrophages 93 Mammary carcinoma 310 Mediterranean fever 327 Membrane coating granules (MCG) 98 -, turnover 93 Meprobamate 125 Merkel cell 373-375 cells 29 Methionine-enkephalin 29 Methoxydalbergione 277 α-methylene-γ-valerolactones 277, 278, 281 4-Methylumbelliferyl phosphate 222 Microcytotoxicity assay 283, 284 β₂ Microglobulin 85 Microwave Irradiation 307, 311 Microwaves 303, 304, 308-310 Mitogenic stimulation 249, 255 Monoclonal antibodies 1, 189, 217 Monocytes 327

Morphine 29
Mouse skin 9, 307
Mousal associated lymphatic tissue (MALT) 295, 300
Mycobacterium leprae 187
Mycosis 141
Myeloperoxidase 69
Myrmecia 101
Myxovirus 127

Natural killer (NK) cell 283 – 288 Necrotic 39 Neisseria gonorrhoeae 321 Neoplasia 21 Neurotransmitters 29 Neutrophils 327 Nummular eczema 387

Opioid peptides 29 Oxygen intermediates 65 Ozone 47

Paget's disease 98, 388 Papillomavirus 101 Parakeratosis 250, 254 Parasites 159 Parotid flow rate 298, 299 -, saliva 295, 296, 298, 300 Pemphigus antibodies 123 -, antigen 85, 123 Penicillamine 123 Penicillin 124, 321 Peritoneal dialysis 73 Pernicious anemia 1 PHA reaction 317, 319 Photochemotherapy 79 Phytohemagglutinin (PHA) 250, 255, 313-315, 317 - 319Pinocytosis 98 Pityriasis alba 387 -, rosea 388

Podophyllin 9
Pokeweed mitogen 250, 255
Polymorphonuclear leukocyte 65, 267–269, 327
Polygodial 1 277–281
Polygonum hydropiper 277–281
Pompholyx 387
Porella vernicosa 278

Porpholyx 387
Porella vernicosa 278
Porphyria 179, 349, 350
Porphyrin excretion 179
Poxviruses 127
Procollagen 21

Plantar mosaic warts 101, 103

-, simplex 388

Progesterone 128
Propionibacterium acnes 267, 268
Propranolol 125
Prostaglandin E₂ 32
Prurigo 388
Pruritus 29
Pseudouridine 335
Psoriasis 73, 249, 250, 255, 257, 295, 296, 299, 300, 327
Puits of Devergier 388
Pustular psoriasis 327
PUVA 79, 331
Pyrazolon derivatives 125
Pyritinol 123

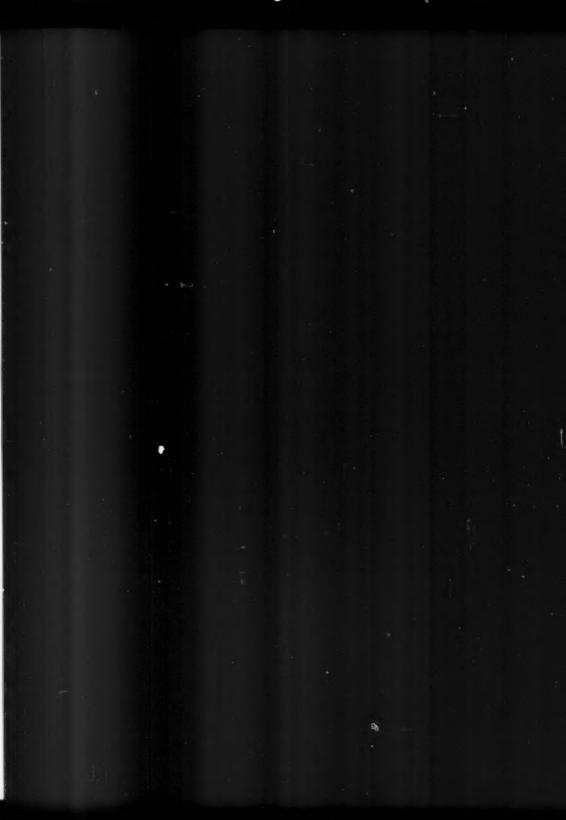
Retinoids 331, 339 5α-reductase 293 Rifampicin 123

Salivary glands 295-297, 300 Scabies 159 Sarcoidosis 76 Schirmer test 295, 296, 299, 300 Sebaceous gland 289-293 Seborrheic 85 -, dermatitis 387 Senile asteatotic eczema 387 Sex hormones 128 Sézary cells 141 -, syndrome 142 Sicca syndrome 295, 296, 300 Singlet oxygen 65 Sjörgren's syndrome 295 Skin cancer 47, 303 - 305, 307 - 309 -, carcinoma 303, 310 -, /hair lipids 369 -, tumors 85 Solar keratosis 85 Somatostatin 249, 250, 255, 256 Spectinomycin 322 Spongiotic dermatitis 387-389 Squamous cell carcinoma 85 Stereospecifity 280 Streptococcus group G 39 Streptodornase 313 Streptokinase 313 Substance P 29 Sunshine 47 Superoxide anion (O2) 65 -, dismutase 65 Synthetic retinoids 217 Systemic sclerosis 189

Tape-stripped skin 57 Tartrazine 359, 360 T-cell 189

- -, lymphoma 141 Terminal elimination 377 -, hair follicle 289, 293 Testosterone 289-293 Thiery's reaction 254 Thymidine, tritiated 313 Thymoma 127 Thymus epidermis 113 T-lymphocyte receptors 280 T-lymphocytes 313, 319 Transepidermal water loss 57 Triggered pemphigus 123 Triton-X-100 phosphate-buffered solution 381 T-suppressor cells 216 T suppressor 1 Tuberculin reaction 317, 319 -, test 313, 314, 317, 319
- Ultraviolet radiation 47 Uroporphyrin 179

- UVB 79 UV radiation 126
- Vascular injury 65 Vasoactive intestinal polypeptide (VIP) 29 Vellus hair follicle 289 Ventilated chamber 57 Vitiligo 1
- Warburganal 277-281 Warts 101 Washing-scrub method 381 Water pik method 381 -, spray method 381
- Xeroderma pigmentosum, dermatologic findings 234 –, neurologic findings 230, 235 ophthalmologic findings 235





Archives of

Dermatological Research

Volume 274 1982

Editor-in-Chief: E. Christophers, Kiel

Managing Editors

R. H. Cormane, Amsterdam (Editor for Views and Concepts)
R. L. Dobson, Charleston
K. Halprin, Miami
O. P. Hornstein, Erlangen (Editor for Letters to the Editor)

R. Marks, Cardiff (Editor for Reviews)

J. A. Parrish, Boston M. Seiji, Sendai G. Stüttgen, Berlin K. Wolff, Wien (Editor for Short Communications)

Editorial Board

- O. Braun-Falco, München
- J. Civatte, Paris
- J. Gigli, San Diego
- V. K. Hopsu-Havu, Turku
- H. Ippen, Göttingen
- L. Juhlin, Uppsala
- A. Krebs, Bern
- A. Kukita, Tokyo
- E. Macher, Münster

- H. Maibach, San Francisco
- G. Moretti, Genua
- Th. Nasemann, Hamburg
- H. Röckl, Würzburg
- F. Serri, Rom
- U. W. Schnyder, Zürich
- G. K. Steigleder, Köln
- J. Thivolet, Lyon



Springer International

In 1869 the Archives of Dermatological Research was founded as "Archiv für Dermatologic und Syphilis" by H. Auspitz and F. J. Pick. Continued and edited by A. Neisser, L. v. Zumbusch, J. Jadassohn, W. Pick. Vols. 1 – 127 (1920) published by Braunmüller, Vienna; as of Vol. 128 (1921) by Springer, Berlin.

From 1921 until 1973 organ of the Deutsche Dermatologische Gesellschaft (Vereinigung deutschsprachiger Dermatologien). As of Vol. 201 (1955) published as "Archiv für klinische und experimentelle Dermatologie".

As of Vol. 240 (1971) as "Archiv für Dermatologische Forschung/Archives for Dermatological Research".

As of Vol. 253 (1975) as "Archives for Dermatological Research/Archiv für Dermatologische Forschung".

As of Vol. 261 (1978) as "Archives of Dermatological Research/Archiv für Dermatologische Forschung".

As of Vol. 264 (1979) as "Archives of Dermatological Research".

The exclusive copyright for all languages and countries, including the right for photomechanical and any other reproductions, also in microform, is transferred to the publisher.

The use of registered names, trademarks, etc. in this publication does *not* imply, even in the absence of a specific statement, that such names are exempt from the relevant protective laws and regulations and therefore free for general use.

"While the advice and information in this journal is believed to be true and accurate at the date of going to press, neither the authors nor the editors nor the publisher can accept legal responsibility for any errors or omissions that may be made. The publisher makes no warrantly, express or implied, with respect to the material contained herein."

Springer-Verlag Berlin Heidelberg New York Printed in Germany © Springer-Verlag GmbH & Co. KG Berlin Heidelberg 1982

Contents Volume 274

Original Contributions

Amblard P, Beani Jc, Gautron R, Reymond Jl, Doyon B: Statistical Study of Individual	
Variations in Sunburn Sensitivity in 303 Volunteers Without Photodermatosis .	195
Asakawa Y, see Stampf J-L, et al	
Barneon G, see Guilhou JJ, et al	249
Beadle PC, Leach JF: Holidays, Ozone and Skin Cancer	47
Beani Jc, see Amblard P, et al	195
Benezra C, see Stampf J-L, et al	277
Bolling R, see Mahrle G, et al	85
Boner G, see Halevy S, et al	73
Bossecker T, see Knop J, et al	267
Bots GTAM, see Schroeff JG van der, et al	
Boulanger A, see Guilhous JJ, et al	249
Braun-Falco O, see Schmoeckel Chr, et al	141
Burg G, see Schmoeckel Chr, et al	141
Caron JC, Eustache J, Shroot B, Prota G: On the Interaction Between Anthralin and	
	207
	179
Claudy AL, Touraine JL, Mitanne D: Epidermodysplasia Verruciformis Induced by a	
New Human Papillomavirus (HPV-8)	213
Clot J, see Guilhou JJ, et al	
Croissant O, see Laurent R, et al	
Doyon B, see Amblard P, et al	
Dugard PH, see Scott RC, et al	
Edler L, see Fischer E, et al	229
Enriquez de Salamanca R, Mingo D, Chinarro S, Muñoz JJ, Perpiñá J: Patterns of	
Porphyrin-Excretion in Female Estrogen-Induced Porphyria Cutanea Tarda	179
Eustache J. see Caron JC. et al.	207
Ewert A, see Reitmeyer JC, et al	39
Feuerman EJ, see Halevy S, et al	73
Fischer E, Thielmann HW, Neundörfer B, Rentsch FJ, Edler L, Jung EG: Xeroderma	, ,
Pigmentosum Patients from Germany: Clinical Symptoms and DNA Repair	
Characteristics	229
Fiellner B. Hägermark Ö: Potentiation of Histamine-Induced Itch and Flare Responses	
in Human Skin by the Enkephalin Analogue FK 33-824, β-Endorphin and Morphine	29
Gautron R. see Amblard P. et al.	195
Gautron R, see Amblard P, et al	
Somatostatin Treatment of Psoriasis	249
Hägermark Ö, see Fjellner B	29
Halevy S, Halevy J, Livni E, Boner G, Rosenfeld JB, Feuerman EJ: Macrophage	
Migration Inhibitory Activity in the Sera of Patients Undergoing Peritoneal Dialysis	
for Psoriasis	73
Halevy J, see Halevy S, et al	73
Herlin T, see Zachariae H, et al	
Hirotani T, Manabe M, Ogawa H, Murayama K, Sugawara T: Isolation and	
Characterization of Horny Cell Membrane	169
Hoffmann-Fezer G, see Schmoeckel Chr, et al	

Horsmanheimo M, see Syrjänen S, et al	295
Imamura S. see Miyachi Y. et al.	65
Imamura S, see Miyachi Y , et al	00
Human Skin	289
	303
	283
Jansén ChrT, see Koulu L	79
Janssen de Limpens AMP, Cormane RH: Studies on the Immunologic Aspects of	"
	259
	229
0,	303
Kienzler II. see Laurent R et al	101
Kienzler JL, see Laurent R, et al	101
	267
Knop J, Riechmann R: Suppression of the Elicitation Phase of Contact Allergy by	201
Epicutaneous Application of Alpha-L-Fucose	155
Korting HCh, see Neubert U, et al	
Koulu L, Jansén ChrT: Effect of Oral Methoxsalen Photochemotherapy	79
Kövary PM, see Knop J, et al	
Kragballe K, see Zachariae H, et al	327
Krogh G von, Maibach HI: Cutaneous Cytodestructive Potency of Lignans. I	9
	313
	283
Laurent R, Kienzler JL, Croissant O, Orth G: Two Anatomoclinical Types of Warts	
	101
	313
Leach JF, see Beadle PC	47
Ledesma GN, York KK: Suppressor Cell Decrease in Alopecia Areata	1
Livni E, see Halevy S, et al	73
Löhrs U, see Schmoeckel Chr, et al	141
Lorand T, see Pierard GE, et al	313
Macdonald E, see Reitmeyer JC, et al	39
Mahrle G: Domain Turnover of Junctional Membrane Areas in the Epidermis	93
Mahrle G, Patyk H, Bolling R: Concanavalin-A Binding Sites, Pemphigus Antigens,	
and β_2 Microglobulin in Epidermal Hyperproliferation, Premalignant and	
Malignant Lesions	85
Maibach HI, see Krogh G von	9
	169
Marks R, see Mitrani E	21
Meyer HD, see Schäfer SG, et al	349
Meynadier J, see Guilhou JJ, et al	249
	221
Mingo D, see Enriquez de Salamanca R, et al	179
	213
Mitrani E, Marks R: Procollagen Localisation in Normal, Premalignant and	
Malignant Lesions of the Epidermis	21
Miyachi Y, Yanase K, Imamura S, Niwa Y: Increased Hydroxyl Radical Generation	
by Normal Polymorphonuclear Leukocytes Incubated in Sera from Patients with	
Leukocytoclastic Vasculitis	65
Muñoz, JJ, see Enriquez de Salamanca R, et al	179
Murayama K, see Hirotani T, et al	169
Nagayo K, Way BH: Urinary Levels of Pseudouridine in Patients with Psoriasis	
	335
Neubert U, Korting HCh, Ruckdeschel G: Susceptibility of Neisseria Gonorrhoeae to	
	321
Neundörfer B, see Fischer E, et al	229
Niwa Y, see Miyachi Y, et al.	65

Contents	v

	169
Oliver GJA, see Scott RC, et al	57
	101
Patyk H, see Mahrle G, et al	85
	179
Pierard GE, Pierard-Franchimont C, Le T, Lorand T, Lapiere CM: A Comparative Study Between Interdermal Tests with Phytohemagglutinin and Delayed Hyper-	
	313
	313
Pietraszek A, see Szudziński A, et al	
Pisani M, see Ruocco V	123
Prota G, see Caron JC, et al.	207
Reano A, see Viac J, et al.	113
Reitmeyer JC, Macdonald E, Ewert A: Experimental Necrotic Dermatosis Induced by	20
Group G Streptococci in Mice	39
Rentsch FJ, see Fischer E, et al	
Reymond Jl, see Amblard P, et al	
Richter E, see Schäfer SG, et al	
Riechmann R, see Knop J	
Rosenfeld JB, see Halevy S, et al	
Ruckdeschel G, see Neubert U, et al	220
Ruiter DJ, see Schroeff JG van der, et al	122
Ruocco V, Pisani M: Induced Phemphigus	123
Hexachlorobenzene-Induced Porphyria in Rats	240
Schmitt D. see Vice I et al	112
Schmitt D, see Viac J, et al	113
Falco O: Cutaneous Immunoblastic T-Cell Lymphoma	141
Schroeff JG van der, Ruiter DJ, Bots GTAM: Epidermal Langerhans Cells in	141
	339
Erythrokeratodermia Variabilis	337
Measurement of Transepidermal Water Loss	57
	207
Singh HJ, see Scott RC, et al.	
Stampf J-L, Benezra C, Asakawa Y: Stereospecificity of Allergic Contact Dermatitis	31
(ACD) to Enantiomers. III.	277
	141
Sugawara T, see Hirotani T, et al.	169
Syrjänen S, Syrjänen M, Horsmanheimo M: Structure and Function of Salivary Glands	107
in Psoriatics	295
Syrjänen M, see Syrjänen S, et al	295
Szmigielski S, see Szudziński A, et al	303
Szudziński A, Pietraszek A, Janiak M, Wrembel J, Kalczak M, Szmigielski S:	
Acceleration of the Development of Benzopyrene-Induced Skin Cancer in Mice by	
Microwave Radiation	303
Takayasu S, see Itami S	289
Tardieu JC, see Guilhou JJ, et al	249
Thielmann HQ, see Fischer E, et al	229
Thivolet J, see Viac J, et al	113
Thivolet J, see Viac J, et al	213
Uksila J, see Viander M, et al	283
Van Neste D: Immuno-Allergological Aspects of Scabies	159
Van Rennes H, see Mier PD	221
Van Rennes H, see Mier PD	
by Epithelial Cells of Thymus and Epidermis	113
Viander M, Uksila J, Lassila O, Jansén ChT: Natural Killer Cell Activity in Atopic	
Dermatitis	
Vic P, see Guilhou JJ, et al	
Way BH, see Nagayo K.	335

Weitz H, see Schmoeckel Chr, et al. Wrembel J, see Szudziński A, et al. Yanase K, see Miyachi Y, et al. York KK, see Ledesma GN Zachariae H, Kragballe K, Herlin T: Colchicine in Generalized Pustular Psoriasis: Clinical Response and Antibody-Dependent Cytotoxicity by Monocytes and Neutrophils	303 65 1
Short Communications	
Barthelemy H, see Claudy AL, et al	189 189
Furukawa F, Ozaki M, Imamura S, Yoshida H, Pinrat A, Hamashima Y: Associations of Circulating Immune Complexes, Clinical Activity, and Bacterial Index in Japanese	105
Patients with Leprosy	
Garcier F, see Claudy AL, et al.	
Hamashima Y, see Furukawa F, et al.	185
Hartmann AA: A Comparative Investigation of Methods for Sampling Skin Flora Hellgren L, Puschmann M, Vincent J: Simultaneous Determination of Lipids from	381
Skin and Hair After Exposure to Topical Chlormandinone Acetate	369
Imamura S, see Furukawa F, et al	185
Kanerva L, see Lauharanta J, et al	377
Kanerva L, Niemi K-M, Lauharanta J, Lassus A: Fine Structure of Merkel Cells After PUVA Treatment	373
Lassus A, see Lauharanta J, et al	377
Lassus A, see Kanerva L, et al.	373
Lauharanta J, see Kanerva L, et al	373
Lauharanta J, Paravicini U, Kanerya L, Lassus A: Decline of Plasma Concentrations	
of Etretinate and Its Main Metabolite After Treatment	
Le Petit JC, see Claudy AL, et al.	189
Miyachi Y, Ozaki M, Uchida K, Niwa Y: Effects of Thalidomide on the Generation	
of Oxygen Intermediates by Zymosan-Stimulated Normal Polymorphonuclear	0.00
Leukocytes	363
Moll I, see Voigtländer V, et al.	359
Niemi K-M, see Kanerva L, et al	
Niwa Y, see Miyachi Y, et al	
Ozaki M, see Furukawa F, et al	
Ozaki M, see Miyachi Y, et al	363
Paravicini U, see Lauharanta J, et al	
Pinrat A, see Furukawa F, et al	
Puschmann M, see Hellgren L, et al	
Stach C, see Voigtländer V, et al	
Uchida K, see Miyachi Y, et al.	363
Vincent J, see Hellgren L, et al	369
Tartrazine	
Yoshida H, see Furukawa F, et al	
Letters to the Editor	
Ackerman AB: Reply to the Comments by E. Kocsard	389
Announcements	
Erratum	
Kurt Wolff Award	
Subject Index	391

